VINOGRADSKIY, B.I.; GOROZHANKIN, E.V.; OLEYNIK, V.N.; RUCHINSKIY, V.R.

Carbon dioxide absorption under pressure in scrubbers with flat parallel packs. Gaz. prom. 10 no.7:49-53 '65.
(MIRA 18:8)

VINOGRADSKIY, B. M.

5682. VINOGRADSKIY, B. M. Vyrashchivaniye Vysokogo Urozhaya Kartofelya Na Vsey Ploshchadi Posadki. Iz Opyta Raboty Cherdaklinskogo Sovkhoza Lil'yanovskogo Spritotresta.(Ul'yan. Obl.) M.; Pishcheprom-izdat, 1954. 27s. s Ill. 20 sm. (M-Vo Prom-Sti Prodovol'stv. Tovarov SSR. Otd. Sel'skogo Khozyaystva. k Vsesoyuz. s-kh. Vystavke). 5,000 Ekz 30k (55-1033) p. 635.21st (47.86)

SO: Knizhnaya, Letopis, Vol. 1, 1955

VINOGRADSKIY, B.M., kandidat sel'skokhozyaystvennykh nauk.

New cultivation practices increasing the starch content and yield of potatoes. Mat.v shkole no.1:36-41 Ja-F '54. (MLRA 6:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.

(Potatoes)

VINOGRADSKIY,B.M.; DAVYDOV,G.K.; NOSKOVA,A.V.; STEFANISHIN,S.Ye.

Foliar nutrition of potatoes. Trudy VNIISP no.4:115-121 '54.
(MLRA 8:12)

(Potatoes) (Fertilizers and manures)

VINOGRADSKIY, B.M.

Checkrow planting of potatoes. Spirt.prom.20 no.1:36-38 '54.
(MLRA 7:5)

(Potatoes)

VINOGRADSKIY, B.M., red.

[Potatoes; advanced practices and scientific progress] Kartofel'; peredovoi opyt i dostizheniia nauki. Moskva, Gos. izd-vo selkhoz. lit-ry, 1958. 350 p. (MIRA 11:10)

(Potatoes)

VINOGRADSKIY, B., kand. sel'skokhozyaystvennykh nauk.

Gaining one per cent of starch. Nauka i pered. op. v sel'khoz. 8 no.3:41-42 Mr '58. (MIRA 11:3)
(Potatoes)

SIVOLAP, I.K.; VINOGRADSKIY, B.M.

Organizing the resources of raw potatoes for the distilling industry. Spirt.prom. 26 no.5:30-32 '60. (MIRA 13:7)

(Distilling industries) (Potatoes)

USSR / Cultivated Plants. Potatoes, Vegetables, Melons. M-4

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58595

Author : Vinogradskiy, B. M.
Inst : All-Union Scientific Research Institute of Alcohol Industry
Title : Joint Sowings of Potato and Corn

Orig Pub : Byul. Nauchno-tekhn. inform. Vses. n.-i. in-t spirt. i likero-vodochn. prom-sti, 1957, No 3, 68-70

Abstract : Production experiments consisting of sowing potatoes in coulisses of corn showed the high effectiveness of this method. The yield of potato increased by 15-25% in the sovkhoz imeni Gor'kiy, Kuybyshev oblast. In Orel and Tambov obl., the yield in coulisse sowings was on the average 2 t/ha higher in 1956 than in open fields. -- E. A. Okorokova

Card 1/1

USSR/Cultivated Plants - Potatoes, Vegetables, Melons. H.

Abs Jour : Ref Zhur - Biol., No 19, 1958, 44098

Author : Vinogradskiy, B.M., Grud Ashnikova, O.K.
Inst : -
Title : Top Dressing Potatoes.

Orig Pub : Kartofel', 1957, No 3, 21-23

Abstract : In the two-year experiments with top-dressing potatoes made at the Moscow experimental station, a 20% increase in the crop was obtained by spraying with solutions of P_c, heteroauxine and boron. A 13% increase was obtained by spraying with Bordeaux solution. In both cases there was no change in the percentage of starch. In another experiment spraying potatoes with Bordeaux mixture yielded an increase of 4 tons per hectare. Treatment with Bordeaux mixture in conjunction with P_c increased the crop by 7 tons with some increase in the percentage of starch.

Card 1/2

USSR/Cultivated Plants - Potatoes, Vegetables, Melons. M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44098

The authors are in favor of a more thorough development of this new agricultural technique. -- V.V. Prokof'ev

Card 2/2

VINOGRADSKIY, D.

Use of computer techniques and cybernetics in the petroleum industry. Neft. khoz. 43 no.6:68-69 Je '65. (MIRA 18:7)

VINOGRADSKIY, D.N.

Development of the oil fields of Siberia and Mangyshlak is a problem for the whole scientific and technical community.
Neftianik 9 no.9:4-5 S '64 (MIRA 18:2)

VINOGRADSKIY, F.M.

DUDKO, D.A., kandidat tekhnicheskikh nauk; VINOGRADSKIY, F.M., inzhener.

Electric welding in a gas protected atmosphere with forced formation of joints. Avtom.svar. 10 no.3:118-122 My-Je '57. (MLRA 10:8)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O. Patona Akademii nauk SSSR.
(Electric welding)
(Protective atmospheres)

VINOGRADSKIY, F.M.

DUDKO, D.A.; VINOGRADSKIY, F.M.; YEGOROV, S.V.

Sectional welding device for automatic welding of gas pipeline sections in field conditions. Avtom.svar. 10 no.6:93-94 N-D '57. (MIRA 11:1)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Pipelines--Welding)
(Electric welding--Equipment and supplies)

VINOGRADSKIY F M

125-58-5-10/13

AUTHORS: Dudko, D.A., and Vinogradskiy, F.M.

TITLE: Shielded Arc-Welding of Non-Turnable Butt-Joints of Pipe Mains (Gazoelektricheskaya svarka nepovorotnykh stykov magistral'nykh truboprovodov)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5, pp 83-85 (USSR)

ABSTRACT: The article gives general information on a new welding method for vertical joints on non-turnable pipes of 529-720 mm and larger diameters, in carbon dioxide and with the use of oscillating electrode for the second (outer) weld layer. The first layer is welded with thin electrode wire, downward, without any unusual technological measures. Macro-photographs show the first layer and the final two-layer seam (Fig. 1 and 3). The electric parameters of the welding process are given. The best suitable parameters of the welding generators for oscillating electrode-welding are those with rigid outer characteristics, such as the "GSR" series. The generator "AZD-7,5/30" or some generators of the "GSR" series. The described technology assures fully satisfactory welds. The welding Institute has devised special equipment for this purpose, which is currently undergoing industrial tests. There are 3 photographs.

Card 1/2

125-58-5-10/13

hielded Arc-Welding of Non-Turnable Butt-Joints of Pipe Mains

SOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN USSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR)

BMITTED: February 25, 1958

AVAILABLE: Library of Congress

Card 2/2

25(1)

AUTHORS: Dudko, D.A., Candidate of Technical Sciences, and Vinogradskiy, F.M., and Yegorov, S.V., Engineers

SOV/135-59-3-4/24

TITLE: An Assembled Welding Unit for Welding Pipe Sections into Gas Pipelines Under Field Conditions (Sborochno-svarochnaya ustanovka dlya svarki sektsiy trub gazoprovodov v polevykh usloviyakh)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 3, pp 7-8 (USSR)

ABSTRACT: The article gives detailed design and operational information on a new pipe-welding installation for field conditions, devised by the Electric Welding Institute imeni Ye.O. Paton of the Ukrainian Academy of Sciences to eliminate the use of the backing rings and completely mechanize the assembling operations which until now required 4 to 6 men. The first such installation, "R-751", for the automatic field welding of pipe sections up to 720 mm diameter into 50 mm lengths, and joining the lengths to the pipeline, consists of a pipe-receiving unit, an assembling- and welding unit (Fig 2), and an output unit displacing and rotating the ready 50-meter

Card 1/2

An Assembled Welding Unit for Welding Pipe Sections into Gas Pipelines Under Field Conditions

pipe section. The design includes a flux pad under the butt joint. The welding heads are of two-electrode design, the electrodes being placed across the joint. Technological details are given. The assembly process requires 3 men. There are 2 photographs and 1 diagram.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (The Electric Welding Institute imeni Ye.O. Paton of the Ukrainian Academy of Sciences)

S/125/60/000/007/008/010
A161/A029

AUTHORS: Dudko, D.A.; Vinogradskiy, F.M.

TITLE: Welding Horizontal Seams on Vertical Surface with Carbon Dioxide Shielded Arc

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 7, 80 - 83

TEXT: Automatic and semiautomatic welding techniques are described that were used for annular seams on pipes and in construction of blast furnaces. Carbon dioxide was used because of its lower cost than argon and its availability; the major difficulty of completing the last outer portion had been mastered by using edge bevelling shown in illustrations. Automatic shielded arc welding was used for horizontal annular joints on vertical thick-wall (273x35 mm) pipes of "20" steel, using 2 mm Св-10ГС (Sv-10GS) wire and direct current with inverse polarity and a remaining steel support ring (usually employed for manual welding (Fig. 1, a). To improve shielding of outer seam layers a 25 - 30 mm wide ring was placed, as seen in the figure, under the bottom end of the joint. To prevent splatter the gas nozzle was made not concentrical with the wire but flat with a slit, so that it could be moved inside the gap. The gas nozzle was placed in

Card 1/3

Welding Horizontal Seams on Vertical Surface with Carbon Dioxide Shielded Arc

front of the electrode and the gas jet shielded the arc, the pool and the weld bead for 40 - 60 mm behind the arc. One seam of 21 passes (macrophotograph, Fig. 1b) is shown. The total machine welding time per one seam was 45 min, or three to four times less than usual in manual welding. Another example is the semiautomatic welding technique with edges bevelled differently to prevent running down of liquid metal. This technique had been used for welding on site of a blast furnace project with semiautomatic welders and auxiliary welding equipment made by the Electric Welding Institute imeni Paton. The parent metal was "Ст.3" (St. 3), killed; the welding wire "Св-10ГСМ" (Sv-10GSM) ensuring a weld metal of 52 - 54 kg/mm^2 tensile strength and good plasticity. The chemical weld metal composition was: 0.14% C; 0.71% Mn; 0.34% Si. Automatic welding of butt joints on vertical 273 mm diameter and 32 mm wall pipes of butt ends took 10 min per joint only. The seam in Figure 3b was made with special electrode wire of 3 mm diameter. The chemical composition of the pipe, wire and weld metal was:

	C	Mn	Si
pipe	0.18	0.41	0.24
wire	0.07	1.20	0.91
weld	0.10	0.70	0.19

Card 2/3

S/125/60/000/007/008/010
A151/A029

Welding Horizontal Seams on Vertical Surface with Carbon Dioxide Shielded Arc

The latter kind of joint is to be preferred for its productivity and cheapness, though the development of the automatic welder and process techniques for such horizontal joints is difficult. There are 3 figures.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (Electric Welding Institute "Order of the Red Banner of Labor" imeni Ye.O. Paton of the Academy of Sciences of the Ukrainskaya SSR)

SUBMITTED: March 21, 1960

Card 3/3

VINOGRADSKIY, I.I.; POLTAVKO, I.F.

[Topographical surveying instructions for the rodman] Pamiatka reechnika na topograficheskoi s"emke. Moskva, Geodezizdat, 1953. 73 p. (MLRA 8:11)

(Topographical surveying)

VINOGRADSKIY, M.M.

[One hundred centners of corn per hectare; from work practices of Fedor Pomyrlianu's team on the "Pobeda" Collective Farm, Karpinery District] 100 tsentnerov kukuruzy s gektara; iz opyta raboty zvena Fedora Pomyrlianu iz kolkhoza "Pobeda" Karpinenskogo raiona. Kishinev, Partiinoe izdvo TsK KP Moldavii, 1962. 16 p. (MIRA 15:7)
(Moldavia--Corn (Maize))

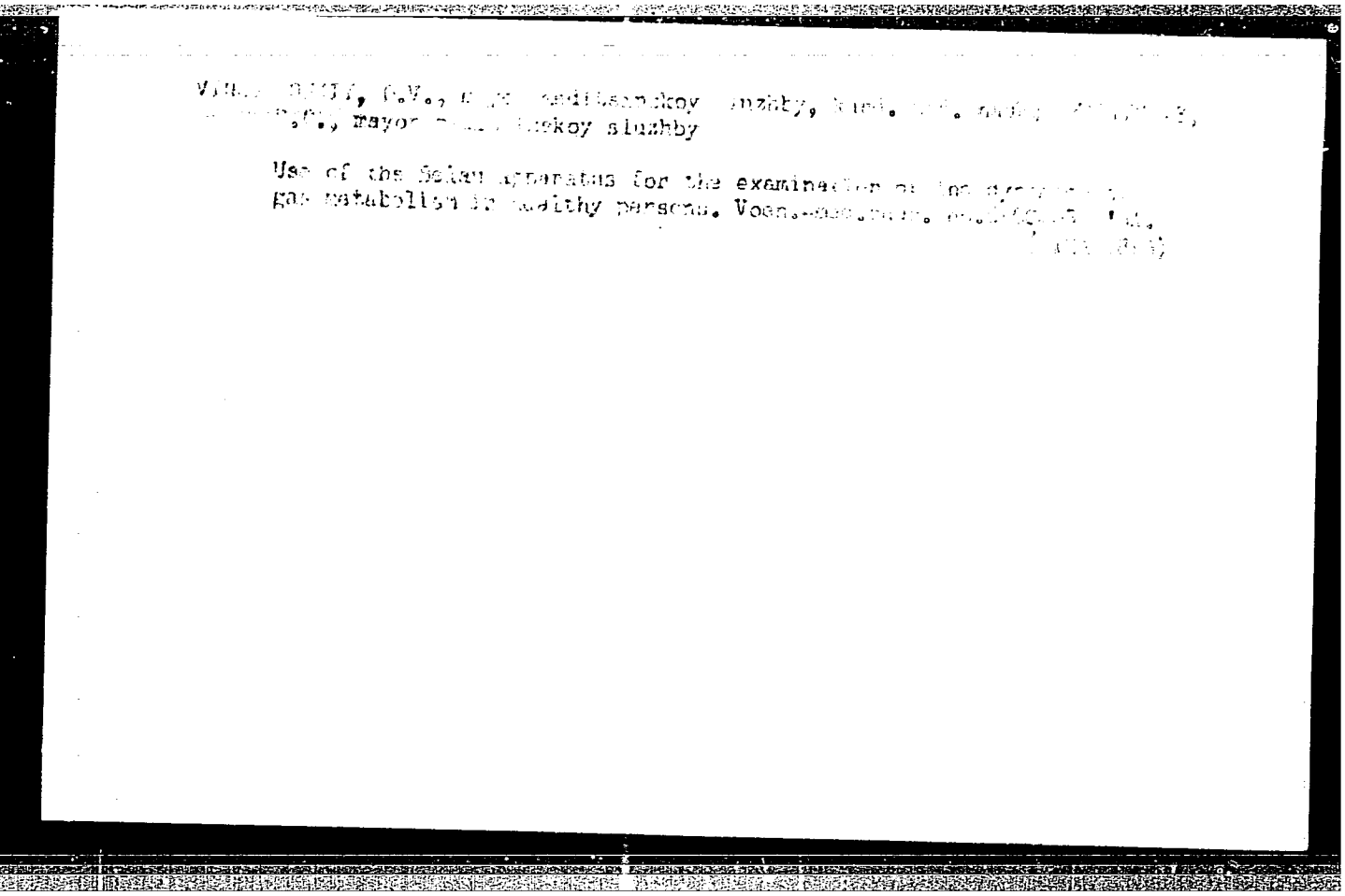
VINOGRADSKIY, M.M.

[One hundred centners of corn per hectare; work practices of Fedor Pomyrlianu's group on the "Pobeda" Collective Farm, Karpineny District] 100 tsentnerov kukuruzy s gektara; iz opyta raboty zvena Fedora Pomyrlianu iz kolkhoza "Pobeda" Karpinenskogo raiona. Kishinev, Partiinoe izd-vo TsK KP Moldavii, 1962. 16 p.
(MIRA 16:9)

(Moldavia—Corn (Maize))

KHAZANOV, I.S.; KUCHERUK, V.V.; BELYANSKIY, P.P.; BELYY, B.D., inzhener, retsenzent; KUGINIS, B.L., inzhener, retsenzent; VINOGRADSKIY, N.V., dotsent, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Operation and repair of ventilation equipment in machinery factories] Ekspluatatsiia i remont ventiliatsionnykh ustanovok mashinostroitel'nykh zavodov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 203 p. (MLRA 8:4)
(Factories--Heating and ventilation)



V[illegible], G.V., [illegible] sanitarnoy sluzhby, kand. [illegible] nauk, [illegible],
[illegible], mayor [illegible] meditsinskoy sluzhby

Use of the Sekur apparatus for the examination of the [illegible] gas metabolism in healthy persons. Voen.-[illegible] [illegible], [illegible]

POPOV, S.Ye.; VYAZITSKIY, P.O.; KUDRYAVTSEV, G.V.; VINOGRADSKIY, O.V.
DYGIN, V.P.

Complications in ACTH and corticosteroid therapy. Sovet. med.
27 no.9:21-25 S'63 (MIRA 17:2)

1. Iz kliniki fakul'tetskoy terapii (nachal'nik - prof. V.A.
Beyyer) Voyenno-meditsinskoy ordena Lenina akademii imeni
Kirova.

VINOGRADSKIY, O.V., kand. med. nauk; VYAZITSKIY, P.O.

Functional state of external respiration in various degrees of mitral stenosis. Kardiologiia 5 no.2:15-17 '63. (MIRA 17:2)

1. Iz kafedry fakul'tetskoy terapii (nachal'nik - prof. V.A. Beyer) i kafedry khirurgii dlya usovershenstvovaniya vrachey (nachal'nik deystvitel'nyy chlen AMN SSSR prof. P.A. Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

VINOGRADSKIY, O.V.

Indications, methods, and effectiveness of oxygen therapy in circulatory insufficiency. Sov.med. 25 no.6:21-27 Je '61. (MIRA 15:1)

1. Iz kafedry fakul'tetskoy terapii No.2 (nachal'nik - prof. A.L. Landa) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(OXYGEN THERAPY) (BLOOD--CIRCULATION, DISORDERS OF)

VINOGRADSKIY, O.V.

Post-transfusion complications caused by the transfusion of Rh-incompatible blood. Sov.med. 25 no.1:3-7 Ja '62. (MIRA 15:4)

1. Iz kafedry fakul'tetskoy terapii No.2 Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova (nachal'nik - prof. A.L.Landa).
(BLOOD--TRANSFUSION) (RH FACTOR)

ACC NR: AP6031941 (N) SOURCE CODE: UR/0177/66/000/009/0068/0072

AUTHOR: Vinogradskiy, O. V. (Lieutenant colonel of the Medical Service); Vyazitskiy, P. O. (Lieutenant colonel of the Medical Service)

ORG: none

TITLE: Some indices of hemodynamics and gas exchange in divers subjected to high fractional oxygen pressures

SOURCE: Voyenno-meditsinskiy zhurnal, no. 9, 1966, 68-72

TOPIC TAGS: oxygen medical research, hemodynamics, diving

ABSTRACT: The effects of repeated exposure to high oxygen pressures were investigated during three years in a group of selected young divers with varying length of diving experience. The data obtained were then compared with data obtained from the simultaneous study of another group of similar age and physical development; the latter were sportsmen and skiers who had never been exposed to high concentrations of oxygen pressure. The results of these investigations make it possible to conclude that as a consequence of repeated and regular

Card 1/2 UDC: 612.014.41.06:626.02

ACC NR: AP6031941

exposure to high oxygen concentrations, distinct protective reactions appear and develop with time; these prevent excessive oxygen penetration into the organism of the divers.

SUB CODE: 05/SUBM DATE: none/ORIG REF: 009/OTH REF: 004/

Card 2/2

VINOGRADSKIY, P. D.

Vinogradskiy, P. D. - "The selection and agrotechnology of the soybean in Ryazan' (Preliminary results), Uchen. zapiski (Ryaz. gos. ped. in-t), Issue 7, 1949, p. 137-44.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

VINOGRADSKIY, S.N.

DECEASED 1953

Biology

See ILC

TOMIN, Ye.D., kand. tekhn. nauk; FOMIN, A.I., inzh.; VINOGRADSKIY, V., red.

[Sapropel, its winning and use in agriculture] Sapropel', ego dobycha i ispol'zovanie v sel'skom khoziaistve IAroslavl', Verkhne-Volzhskoe knizhnoe izd-vo, 1964. 100 p. (MIRA 18:9)

12G34

VINOGRADSKIY, V.

USSR/Automobiles 4403.0200 Oct 1947

"What a Privately Owned Automobile Should Be Like," V. Vinogradskiy, ½ p

"Avtomobil'" Vol XXV, No 10

Series of suggestions made by Vinogradskiy for the construction of automobiles to facilitate their maintenance by individual owners. Suggestions include: equipping motor with air compressor for pumping tires, installing a supplementary gasoline tank with a capacity of 3 - 5 liters, making a groove next to each wheel in order to facilitate insertion of a jack, centralizing lubrication system, etc.

LC 12G34

VINOGRADSKIY, V.F., kand. tekhn. nauk; ZAKHAROV, Ye.N., nauchn. red.; POPOV, N.V., red.

[Vacuum planing of scantling parts in continuous multiple-line processing on automatic lines] Vakuumnoe bazirovanie bruskovykh detalei pri mnogopotochnom sposobe obrabotki na avtomaticheskikh liniiakh. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovanii po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvaiushchei promyshl. i lesnomu khoz., 1964. 23 p. (MIRA 18:5)

VINOGRADSKIY, V.F., kand. tekhn. nauk

Jointing machine with vacuum clamping of parts and forced exhaust of shavings. Der. prom. 14 no.8:10-11 Ag '65. (MIRA 18:10)

VINOGRADSKIY, V.F.; DAVIDENKO, V.K.; TRUSOV, V.A.

New styles of furniture hardware. Der.prom. 9 no.5: 18-19 My '60. (MIRA 13:7)

1. Moskovskiy mebel'no-sborochnyy kombinat No.1.
(Furniture industry)
(Hardware)

VINOGRADSKIY, V.F., inzh.

Forms used in adjusting rabbets for chairs. Der. prom. 7 no.1:20-21 Ja '58. (MIRA 11:1)

1. Dagomysskaya mebel'naya fabrika.
(Chairs)

VINOGRADSKIY, V.F., inzh.

Automatic jointing machine for continuous multiple-line processing of parts. Der. prom. 11 no.8:16-18 Ag '62. (MIRA 17:2)

VINOGRADSKIY, V.F., insh.

Jointing machine with a vacuum clamp and automatic feedings.
Der.prom. 8 no.12:13-14 D '59. (MIRA 13:5)
(Automatic control) (Jointer (Woodworking machine))

VINOGRADSKIY, V.F.

Vacuum planing of scantling parts on jointing machines. Der. prom. 12 no.4:4-6 Ap '63. (MIRA 16:10)

VINOGRADSKIY, V.F., inzh.

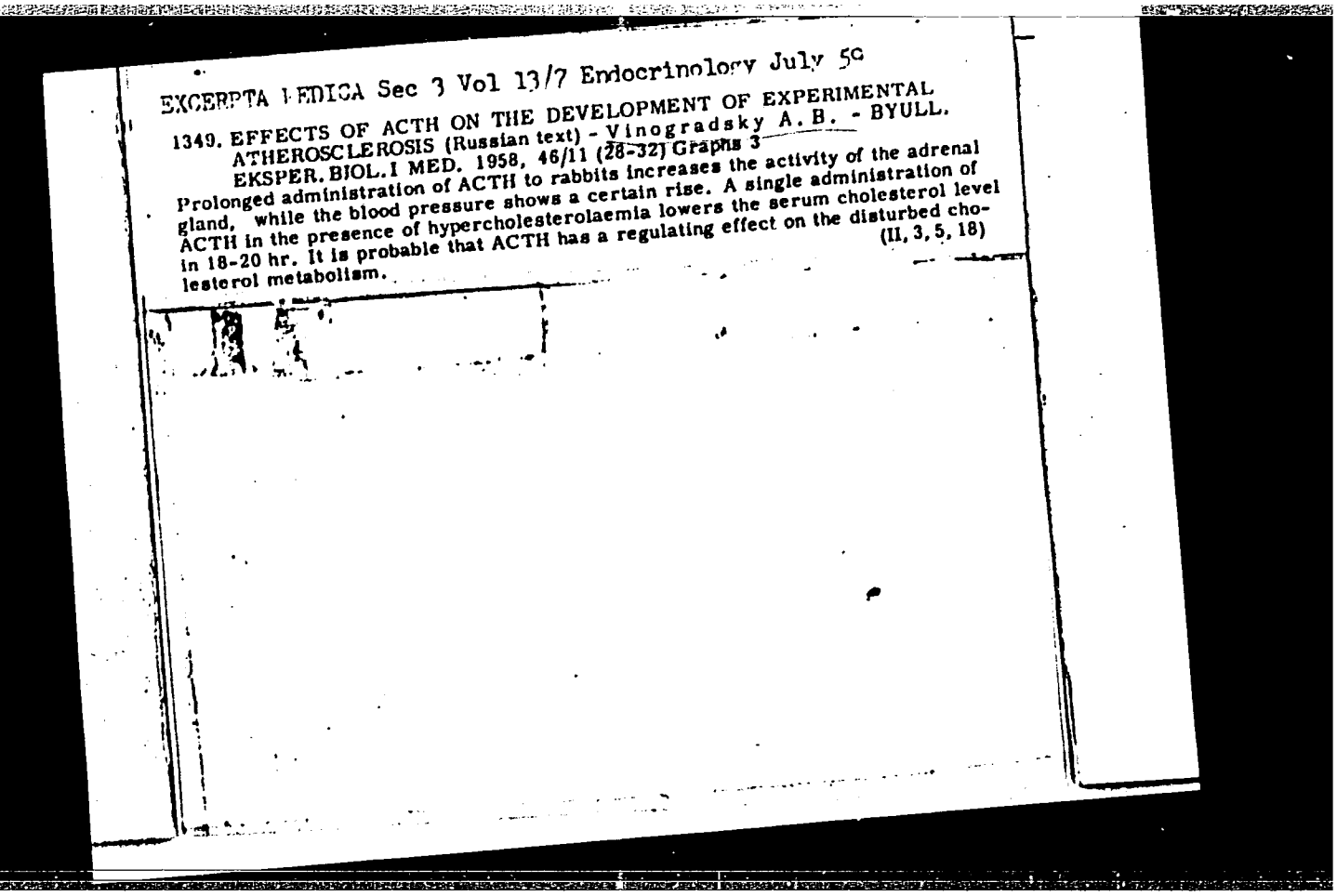
Universal gravity exhauster units. Der. prom. 7 no. 5:21-23 My '58. (MIRA 11:7)

1. Dagomysskaya mebel'naya fabrika.
(Exhaust systems)

VINOGRADSKIY, V.G.

High-speed vacuum dielectric drying of lumber. Der.prom. 9 no.7: 7-8 Jl '60. (MIRA 13:7)

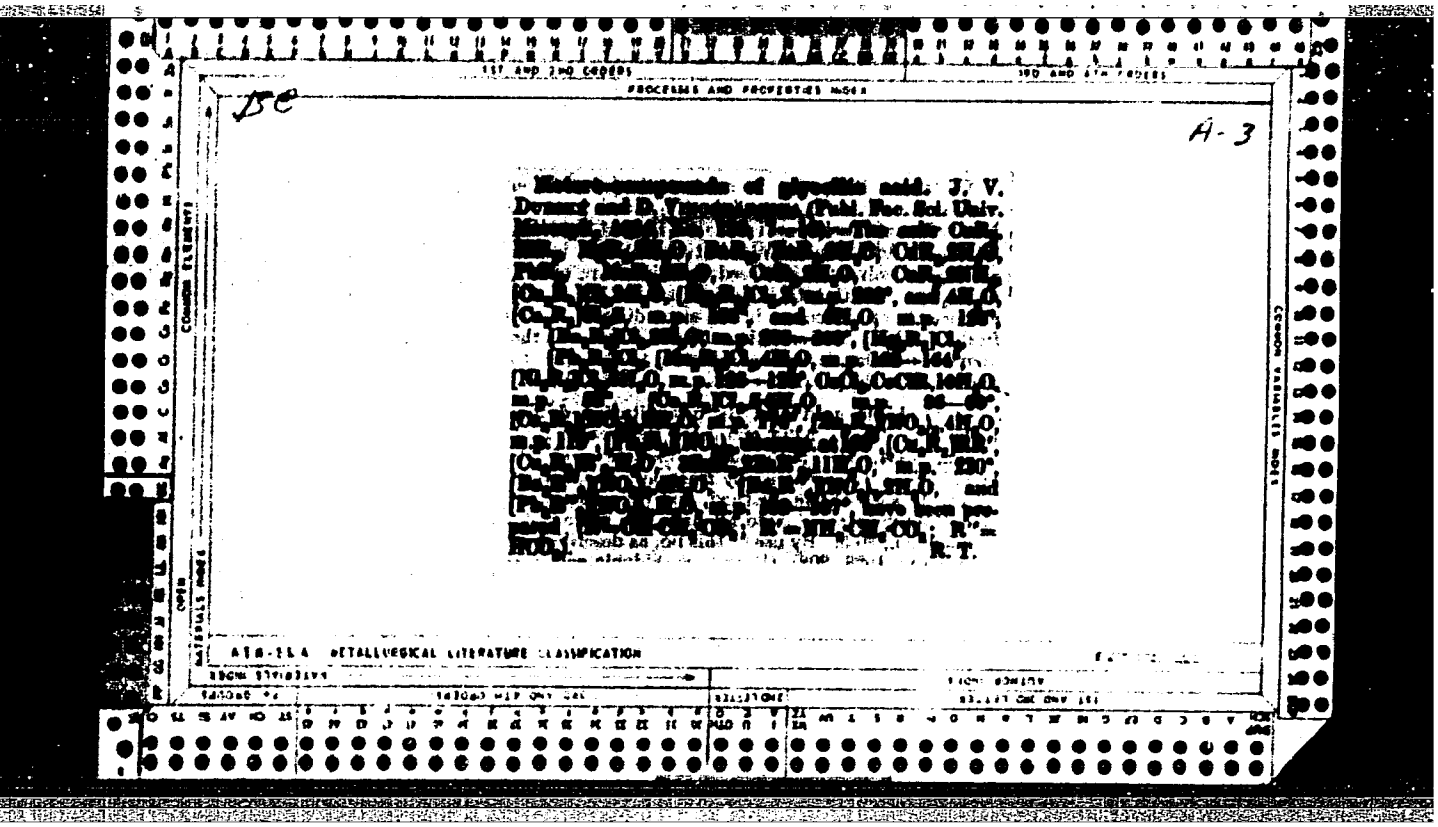
1. Lesotekhnicheskaya akademiya im. S.M.Kirova.
(Lumber—Drying) (Dielectric heating)

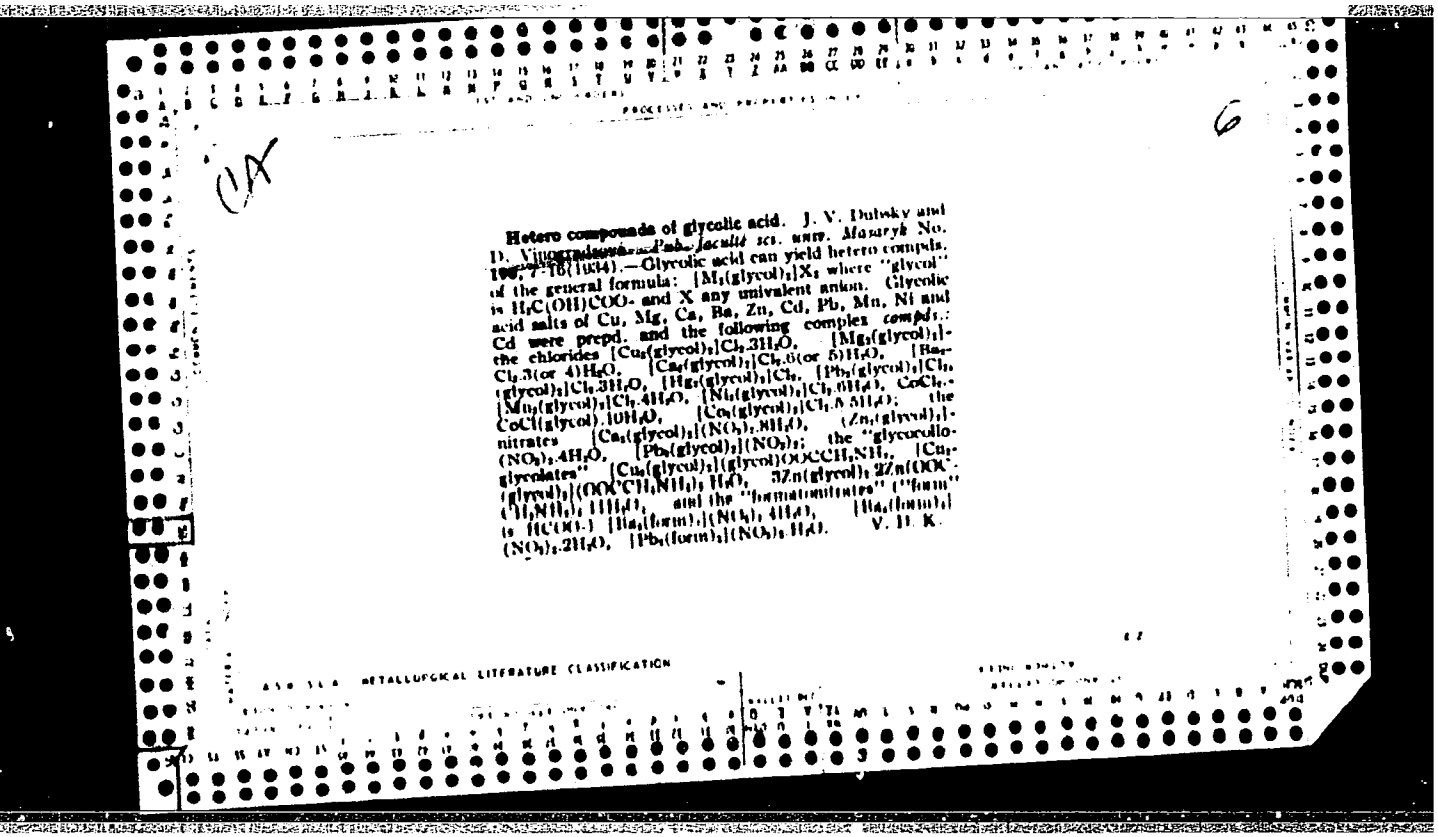


EXCERPTA MEDICA Sec 3 Vol 13/7 Endocrinology July 59

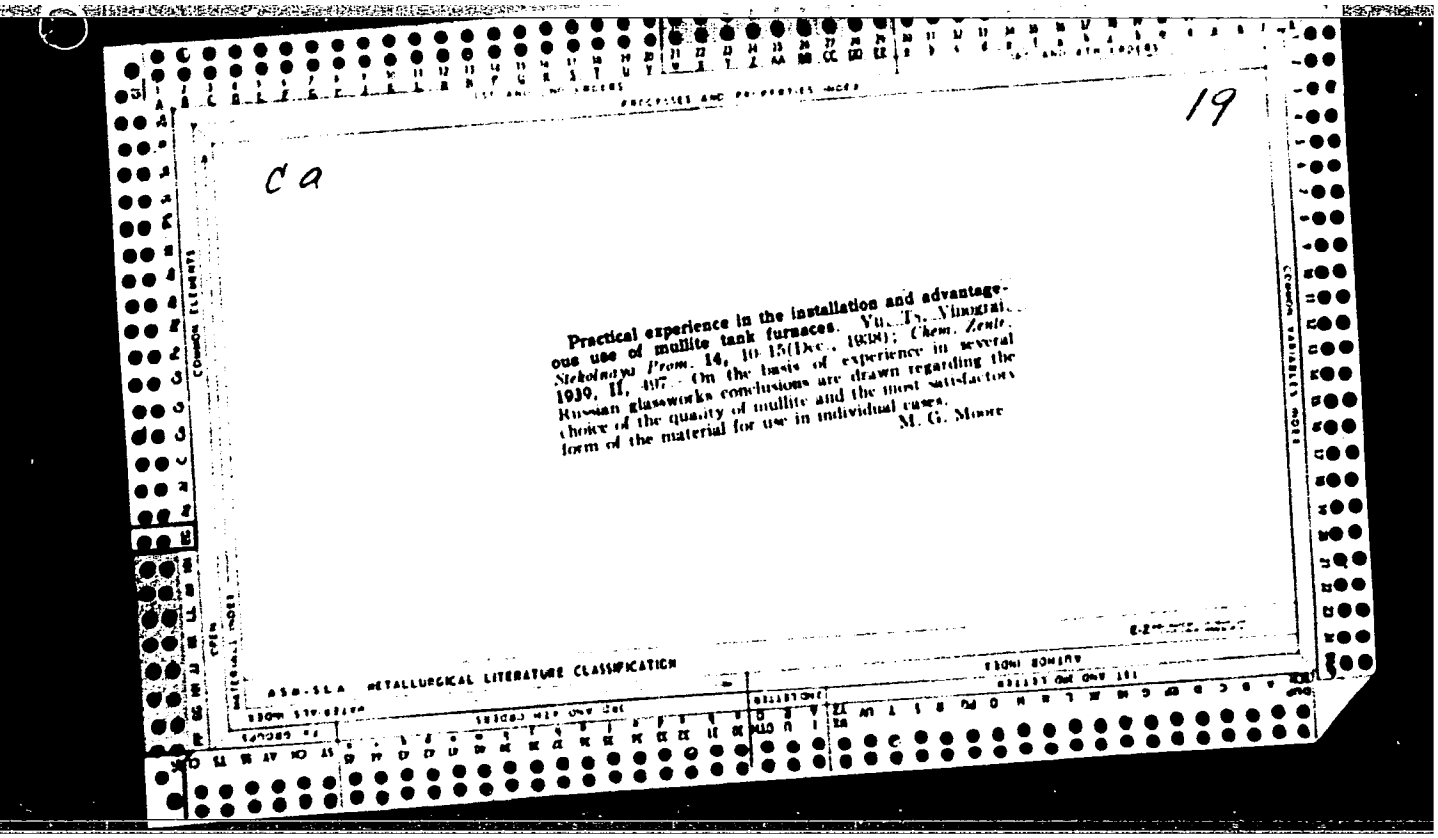
1349. EFFECTS OF ACTH ON THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS (Russian text) - Vinogradsky A. B. - BYULL. EKSPER. BIOL. I MED. 1958, 46/11 (28-32) Graphs 3

Prolonged administration of ACTH to rabbits increases the activity of the adrenal gland, while the blood pressure shows a certain rise. A single administration of ACTH in the presence of hypercholesterolaemia lowers the serum cholesterol level in 18-20 hr. It is probable that ACTH has a regulating effect on the disturbed cholesterol metabolism. (II, 3, 5, 18)





Hetero compounds of glycolic acid. J. V. Dubsky and D. Vinogradova. *Publ. faculté sci. univ. Masaryk* No. 199, 7–16(1934).—Glycolic acid can yield hetero compds. of the general formula: $[M_x(glycol)_y]X_z$ where "glycol" is $H_2C(OH)COO$- and X any univalent anion. Glycolic acid salts of Cu, Mg, Ca, Ba, Zn, Cd, Pb, Mn, Ni and Cd were prepd. and the following complex *compds.*: the chlorides $[Cu_3(glycol)_2]Cl_2.3H_2O$, $[Mg_3(glycol)_2]Cl_2.5$(or 4)H_2O, $[Ca_3(glycol)_2]Cl_2.5$(or 5)H_2O, $[Ba_3(glycol)_2]Cl_2.3H_2O$, $[Hg_3(glycol)_2]Cl_2$, $[Pb_3(glycol)_2]Cl_2.3H_2O$, $CoCl_2.MnCl_2(glycol)_2.4H_2O$, $[Ni_3(glycol)_2]Cl_2.6H_2O$, $CoCl_2.CoCl(glycol).10H_2O$, $[Cu_3(glycol)_2]Cl_2.6NH_4O$; the nitrates $[Ca_3(glycol)_2](NO_3)_2.8H_2O$, $(Zn_3(glycol)_2](NO_3)_2.4H_2O$, $[Pb_3(glycol)_2](NO_3)_2$; the "glycocollo-glycolates" $[Cu_3(glycol)_2](glycol)OOCCH_2NH_2$, $[Cu_3(glycol)_2](OOCCH_2NH_2)_2.H_2O$, $3Zn(glycol)_2.2Zn(OOCCH_2NH_2)_2.11H_2O$, and the "formatonitrates" ("form" is HCOO-) $[Ba_3(form)_2](NO_3)_2.4H_2O$, $[Ba_3(form)_2](NO_3)_2.2H_2O$, $[Pb_3(form)_2](NO_3)_2.H_2O$. V. H. K.



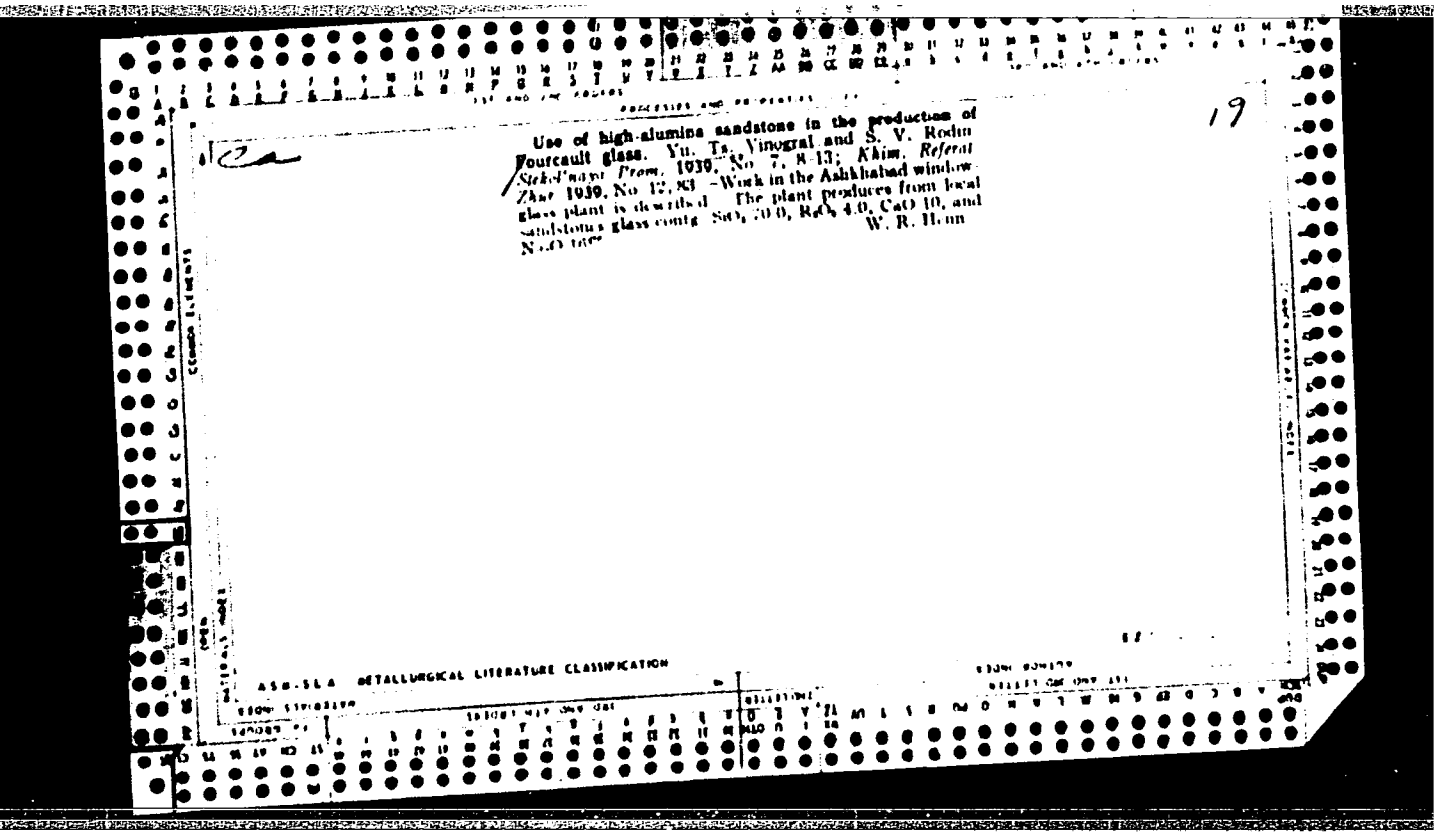
19

Ca

Practical experience in the installation and advantageous use of mullite tank furnaces. Yu. Ts. Vinogrado, *Steklo i Keram.* 14, 10-15(Dec., 1938); *Chem. Zentr.* 1939, II, 407. On the basis of experience in several Russian glassworks conclusions are drawn regarding the choice of the quality of mullite and the most satisfactory form of the material for use in individual cases.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Use of high-alumina sandstone in the production of Foucault glass. Yu. Ts. Vinograi and S. V. Rodin *Steklo i Keram.* 1939, No 7, 8-13; *Khim. Referat Zhur* 1939, No 12, 83.—Work in the Ashkhabad window glass plant is described. The plant produces from local sandstone a glass contg SiO2 70.0, Fe2O3 4.0, CaO 10, and Na2O 16%.

W. R. Hunt

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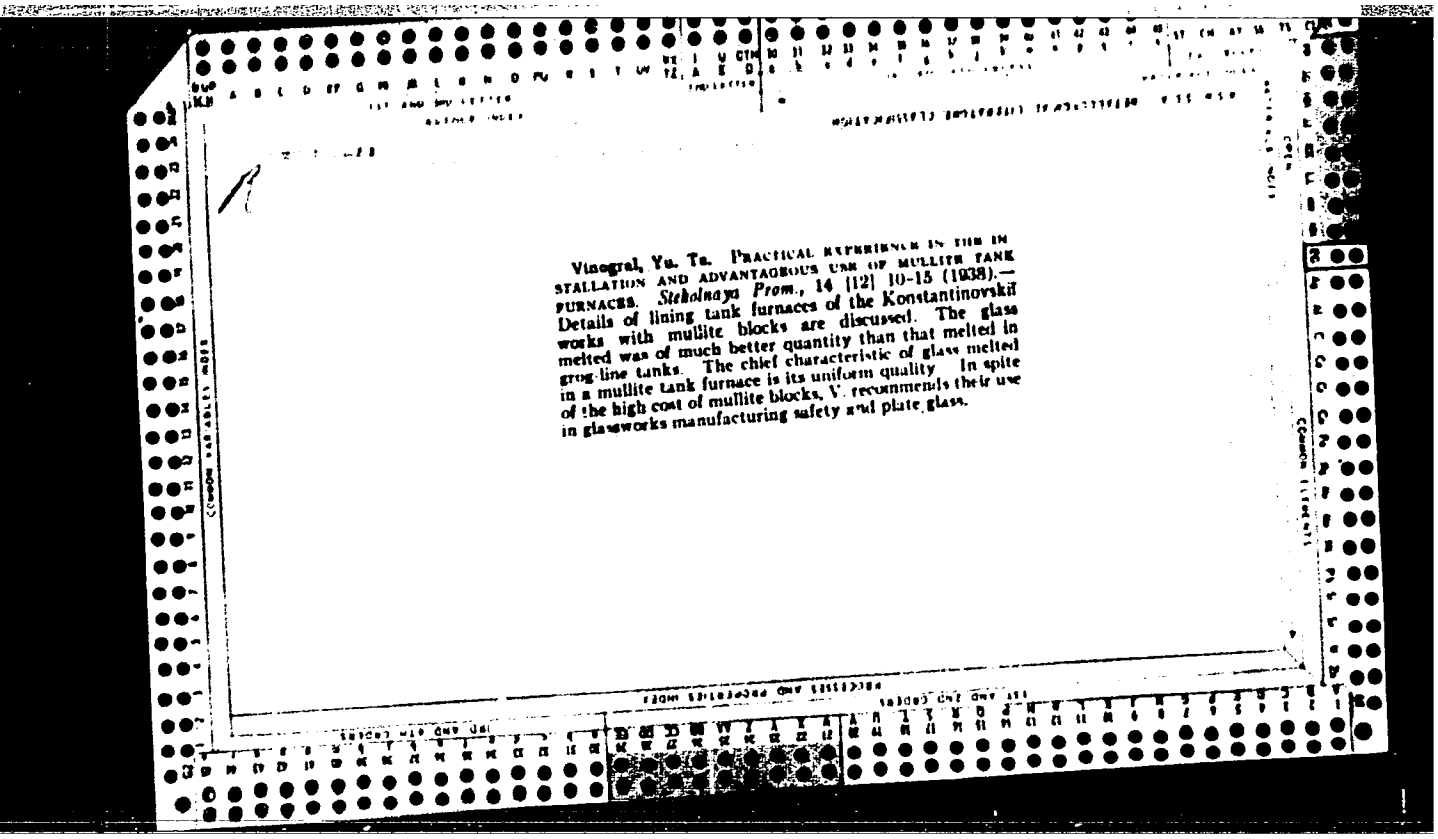
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Vinogral, Yu. Ts. PRACTICAL EXPERIENCE IN THE INSTALLATION AND ADVANTAGEOUS USE OF MULLITE TANK FURNACES. *Steklonaya Prom.*, 14 [12] 10-15 (1938).—Details of lining tank furnaces of the Konstantinovskii works with mullite blocks are discussed. The glass melted was of much better quantity than that melted in grog-line tanks. The chief characteristic of glass melted in a mullite tank furnace is its uniform quality. In spite of the high cost of mullite blocks, V. recommends their use in glassworks manufacturing safety and plate glass.

VINOGRAD-FINKEL', F.R., prof.; KISELEV, A.Ye., dotsent; FEDOROVA, L.I.; SEMENOVA, N.V.; KAUKHCHISHVILI, E.I., dotsent; LAKOVSKAYA, I.A.

Problem of lyophilization of human erythrocytes for their prolonged preservation. Probl. gemat. i perel. krovi no.6:3-12 '65. (MIRA 18:11)

1. Laboratoriya konservirovaniya krovi (zav. - prof. F.R. Vinograd-Firkel') TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya SSSR, Moskva, i Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (dir. A.N.Lepilkin).

AKSEL'ROD, Solomon Moiseyevich; BERMAN, Mark Mikhaylovich; VINOGRAY, Lazar' Il'ich; GOL'DZAND, Samuil Shlemovich; DUGIN, Yakov Sergeyevich; DULEPOV, Konstantin Vasil'yevich; KALUGA, Ivan Ivanovich; LERNER, Yefim L'vovich; LUTSKIY, Moisey Leybovich; PILETSKIY, Vladimir Kirillovich; SADOVNIKOV, Petr Pavlovich; SHLYAMOVICH, Abram Aronovich; VASIL'YEV, B.A., red.; SOBOLEV, Ye.M., tekhn. red.

[Problems of radio engineering and radar]Zadachnik po radiotekhnike i radiolokatsii. [By]S.M.Aksel'rod i dr. Moskva, Gosenergoizdat, 1962. 414 p. (MIRA 15:12)

(Radio) (Radar)

VINOGRAY, M. I.

AUTHORS: Vinogray, M. I., Sorochkin, Yu. M. 72-1-8/13

TITLE: Letter to the Editor (Pis'mo v redaktsiyu).
Regulation of the Supply of Glass for Technical Purposes (Uporyadochit' postavki tekhnicheskogo stekla).

PERIODICAL: Steklo i Keramika, 1958, Nr 1, pp. 26-26 (USSR)

ABSTRACT: In recent years the production of glass for technical purposes has increased considerably and also a better assortment is available; it was, however, not possible to satisfy the demands of economy. The demand for triplex- and steel wire curved glass is intended to be produced in 1960 in quantities that are five times as great as in 1957. The automobile factories in the USSR are supplied with curved glass by the Konstantinovsk "Avtosteklo" (Ukraine) which is not rational with respect to transport. The technology of the series production of curved automobile glass is, however, not yet fully developed, which entails much waste and renders production considerably more expensive. This task would have to be solved in cooperation with the Institute for Glass and its construction offices. In connection with the increase of technical culture and the considerable development in the field of building dwelling houses in the

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Letter to the Editor
Regulation of the Supply of Glass for Technical Purposes 72-1-8/13

USSR, demand for a number of glass products has increased considerably and can, for the time being, not be satisfied because production does not yet function satisfactorily, as is the case, e.g. with signal glass for the railroads, which is manufactured by the works at Chernyatinsk. From 1958 onwards, signal glass is to be produced in accordance with the new regulations GOST (Nr 8547-57), and therefore the technology of production, particularly of red glass must be radically improved. The production of multi-colored light filters is carried out by hand in the Chernyatinsk works, whereas in the German Democratic Republic and in Czechoslovakia this kind of production is mechanized. The glass works "Velikiy Oktyabr'" have difficulties with the production of special glass, and the works "Yarvakandi" and Misheronsk have difficulties with the production of glass tubes of ∅ 2" and larger. This task ought to be solved by the Gomel'glass works (Belorussian SSR) with the help of the Institute for Glass. Instead of the many existing technical conditions a uniform standard ought to be introduced by the State. For the purpose of a general settlement it would be necessary that decisions be taken by the State

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Letter to the Editor 72-1-8/13
Regulation of the Supply of Glass for Technical Purposes

Planning Economic Office of the USSR and by the respective economic councils.

AVAILABLE: Library of Congress

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LYABIN, B.Ya.; VINOKHODOV, O.V.; LYABINA, L.M.

Etiology of infectious conjunctivitis in chicks. Veterinariia 42 no.9:35-38 S '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po boleznyam ptits.

VINOKHODOV, V.A., assistent

Roentgenography of heart in traumatic pericarditis in cattle.
Veterinariia 39 no.6:53-55 Je '62 (MIRA 18:1)

1. Semipalatinskiy zooveterinarnyy institut.

VINOGRADOV, Konstantin Aleksandrovich [Vinohradov, K.O.]; ROLL, Ya.V., otv.red.; BRAGINSKIY, L.P. [Brahins'kyi, L.P.], red.izd-va; Lisovets, O.M. [Lysovets', O.M.], tekhn.red.

[Fish fauna of the northwestern part of the Black Sea] Ikhtiofauna pivnichno-zakhidnoi chastyny Chornoho moria. Kyiv, Vyd-vo Akad.nauk URSR. 1960. 114 p. (MIRA 13:7)

1. Chlen-korrespondent AN USSR (for Roll).
(Black Sea--Fishes)

[illegible], Tadeusz; [illegible], Maria; [illegible], Stanisław

Heating equipment. Gaz woda tech 38 no.6:165-[illegible] Je '64.

1. Department of Plumbing, Institute of Construction Engineering, Warsaw.

VINOKHODOV, O. V. Cand Vet Sci -- "Gout in chickens (Prevalence ~~Dissemination~~, etiology, and pathogenesis)." Len, 1960 (Min of Agr RSFSR. Len Vet Inst). (KL, 1-61, 203)

VINOKHODOV, V. A. (Assistant, Semipalatinsk Zooveterinary Institute)

"On the methods of roentgenography in traumatic pericarditis in cattle"
Veterinariya, vol. 39, no. 6, June 1962 pp. 53

VINOKHODOVA, O.N.

USSR/ Physics - Chemistry

Card 1/1 Pub. 22 - 12/50

Authors : Sverdlov, L. M., and Vinokhodova, O. N.

Title : Computation and interpretation of the oscillating spectra of isobutylene

Periodical : DOK. AN SSSR 100/1, 45-48, Jan. 1, 1955

Abstract : Some methods (variations of constants) and mathematical parameters [r(C-H) = 1.071Å (for the CH_2 group)] etc., which were used in computions and interpretations of oscillating spectra of isobutylene are described and discussed. Eight references: 2 USA and 6 USSR (1947-1954). Tables; diagram.

Institution: The N. G. Chenyshevskiy Saratov State University

Presented by: Academician Lindberg, G. S. September 6, 1954

VINCKIC, K

VINCKIC, K. Problems of the wool industry in Yugoslavia. p. 450

Vol. 4, No. 5, May 1955
TEKSTIL
TECHNOLOGY
Zagreb

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), Vol. 4, No. 9,
Sept. 1955

VINOKIROV, F.P.

Research activity of the Academy of Sciences of the White Russian S.S.R. in 1959. Vestsi AN BSSR. Ser.fiz.-tekh.nav. no.3:124-131 '60. (MIRA 13:9)

1. Glavnyy uchenyy sekretar' Prezidiuma AN BSSR, akademik AN BSSR. (Academy of Sciences of the White Russian S.S.R.)

VINOKUR, A., ekonomist

How to determine the economy of operational costs. Tekh. v sel'khoz. 20 no.7:8-9 Jl '60. (MIRA 13:9)
(Farm mechanization) (Agriculture--Economic aspects)

VINOKUR,A.; SEDAKOV,L.

How we helped the neighboring mine. Mast. ugl. 4 no.6:6-8 Je '55. (MLRA 8:8)

1. Nachal'nik shakhty no.1 "Kamenetskaya" kombinata Moskovougol' (for Vinokur). 2. Sekretar' partiynoy organizatsii shakhty no.1 "Kamenetskaya" kombinata Moskovougol' (for Sedakov)

(Moscow Basin--Coal mines and mining)

VINOKUR, A.I., kandidat tekhnicheskikh nauk

Compressed steam and air safety device for forging hammers. Vest. mash. 35 no.8:42-46 Ag'55. (MLRA 8:10)
(Forging machinery)

BRAUN, M.P.; VINOKUR, B.B.; KONDRASHEV, A.I.

Effect of niobium on types of fracture in alloyed structural steel. Izv.vys.ucheb.zav.; chern.met. 4 no.6:119-125 '61. (MIRA 14:6)

1. Institut liteynogo proizvodstva AN USSR i Novo-Kramatorskiy zavod tyazhelogo mashinostroyeniya im. Stalina.
(Steel, Structural--Testing)

BRAUN, M.P.; VINOKUR, B.B.; GELLER, A.L.

Effect of added alloying of chromium-manganese steel on its hardenability. Izv. vys. ucheb. zav.; chern. met. 5 no.8:128-134 '62. (MIRA 15:9)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.
(Chromium-manganese steel—Hardening)

BRAUN, M.P., doktor tekhn.nauk; VINOKUR, B.D., kand.tekhn.nauk

Fatigue breakdown resistance of steels. Mashinostroenie no.6:87-88 N-D '65. (MIRA 18:12)

ACCESSION NR: AT4022206 S/0000/63/000/000/0063/0065

AUTHOR: Vinokur, B. B.; Braun, M.P.

TITLE: Application of an express creep testing method using the I. A. Oding formula

SOURCE: AN UkrRSR. Insty*tut ly*varnogo vy**robny*tstva. Konstruktsionny*ye i zharoprochny*ye splavy* (Structural and heat-resistant alloys). Kiev, Izd-vo AN UkrSSr, 1963, 63-65

TOPIC TAGS: creep test, express creep test, creep, Oding formula

ABSTRACT: All contemporary theoretical papers on metal creep may be divided into 3 groups: the first considers creep as simple flow of metals at high temperature; the second examines creep from the point of view of the mathematical theory of plasticity; and the third studies creep from the point of view of metallography and metal physics. Due to the excessively long time required for classical creep tests, the authors compared short-term results processed by the Oding formula $\varepsilon = V\tau + C\frac{P\tau}{1-P\tau}$, with long-term experimental data. These creep tests took only 300-500 hours compared to 2500 hours and the results were very close to the theoretical. It is, therefore, possible to use the Oding formula to decrease the time required for creep tests, employing only the minimum testing

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ACCESSION NR: AT4022206

time for finding the creep rate. Orig. art. has: 2 tables and 4 formulas.

ASSOCIATION: Insty*tut ly*varnogo vy*robnytstva AN UkrSSR (Institute of Foundry Technology, AN UkrSSR)

SUBMITTED: 00	DATE ACQ: 19Mar64	ENCL: 00
SUB CODE: ML	NO REF SOV: 002	OTHER: 000

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Card

S/148/63/000/001/015/019
E071/E151

AUTHORS: Braun, M.P., Vinokur, B.B., and Ivanov, F.I.

TITLE: Transformation of supercooled austenite in steels of different degree of alloying

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.1, 1963, 128-135

TEXT: The effect of alloy composition on the transformation of supercooled austenite was studied using 14 stock alloy steels containing Mn (0.32-1.44%), Cr (0.28-1.88%), Ni (0.15-3.02%) and, in some cases, W (0.47-0.52%) or Mo (0.29-0.59%) in addition. Transformation diagrams are given for isothermal conditions and for continuous cooling, and also data on hardenability and mechanical properties. From the observed similarity in behaviour of steels in which nickel, chromium or manganese predominated, it was concluded that chromium or manganese could replace nickel, and that the transformation kinetics, hardenability and mechanical properties of chromium-manganese steel were not inferior to those of a corresponding nickel-chromium steel. Similar degrees of alloying gave similar mechanical properties, e.g. in groups of steels in

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which the total alloy additions (Mn, Cr, Ni, W and Mo) were about 3.5% and 5% respectively. From the transformation diagrams and the mechanical data it was considered possible to determine the dimensions of parts to give the necessary mechanical properties, and to produce steels containing low proportions of scarce (e.g. nickel) or expensive elements for parts such as forgings of various sizes, including very large ones.
There are 1 figure and 4 tables.

ASSOCIATION: Ukrainskaya akademiya sel'skokhozyaystvennykh nauk
(Ukrainian Academy of Agricultural Sciences)

SUBMITTED: January 23, 1961

S/148/60/000/003/016/018
A161/A029

AUTHORS: Braun, M.P.; Vinokur, B.B.; Kamalov, V.A.

TITLE: Hardenability of Niobium-Alloyed Steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. - Chernaya metallurgiya, 1960, No. 3, pp. 140 - 146

TEXT: Data of existing literature sources (Refs. 1 - 13) on the effect of niobium on the hardenability of steel are breifly reviewed and the results of the authors' experiments are given. In a Soviet work (Ref. 9) it has been stated that niobium is, along with molybdenum, the element producing the strongest effect on the atomic bond in the α-iron grid. This is confirmed by a comparison of the mechanical properties of steel alloyed additionally with niobium, molybdenum or tungsten. Two tables (Table 1 and 2) give the chemical composition and the mechanical properties (after quenching in oil from 860-880°C and tempering in 650°C with cooling in air) of the steel grades 35ХН (35KhN), 35ХНБ (35KhNB), 35ХНМ (35KhNM), 35ХНВ (35KhNV), 35ХГН (35KhGN), 35ХГНБ (35KhGNB), 35ХГНМ (35KhGNM), 35ХГНВ (35KhGNV), 25ХГСН (25KhGSN), 25ХГСБ (25KhGSB) and 25ХГСВ (25KhGSV). M.P. Braun and B.B. Vinokur (Refs. 10, 11) proved that niobium raises the viscosity, reduces annealing brittleness and cold brittleness. The authors have investigated the hardenability

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S/148/60/000/003/016/018
A161/A029

Hardenability of Niobium-Alloyed Steel

of 9X2M (9Kh2M) steel used for rolls of cold rolling mills, and compared the obtained data with the results of Reference 13 stating that the hardenability raises with increasing content of alloying elements, particularly when several carbide-forming elements are used. It was found that for vanadium steel the quenching temperature limit is 930-950°C, and for niobium-containing steel 1,100 - 1,150°C. It is mentioned that rolls with different niobium content are being tested in cdd rolling mills. The following general conclusions are drawn: 1) Niobium raises the stability of overcooled austenite in isothermic soaking and in continuous cooling in a degree which rises with the niobium content. 2) Steel additionally alloyed with niobium has higher strength and plasticity. The mechanical properties of steel with niobium are high, and after improvement they are near the properties of steel containing molybdenum and tungsten. 3) It is possible to increase the general toughness of steel and at the same time reduce its tendency to annealing brittleness and cold brittleness by means of a properly chosen chemical composition and a certain niobium content. 4) Addition of niobium to steel containing weak carbide-producing elements improves the mechanical properties and the hardenability; the hardenability can be as high as in tungsten steel. 5) The "butt-end method" of testing has proven that the hardenability of 9Kh2M steel is higher when additionally alloyed with niobium than with vanadium. There are 5

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Hardenability of Niobium-Alloyed Steel

S/148/60/000/003/016/018
A161/A029

figures, 4 tables and 13 references: 9 Soviet, 1 German, 3 English.

Table 1

Chemical Composition of Structural Steels in %

Steel	C	Si	Mn	Cr	Ni	S	P	Nb	Mo	W
35ХН (KhN)	0.36	0.28	0.59	0.72	1.26	0.033	0.018	-	-	-
35ХНБ(KhNB)	0.33	0.35	0.35	1.29	1.52	0.032	0.018	0.33	-	-
35ХНМ (KhNM)	0.37	0.24	0.69	1.65	1.73	0.029	0.019	-	0.29	-
35ХНВ (KhNV)	0.36	0.29	0.75	1.10	1.68	0.020	0.017	-	-	0.48
35ХГН (KhGN)	0.39	0.35	1.48	1.15	1.30	0.030	0.025	-	-	-
35ХГНБ(KhGNB)	0.36	0.30	0.99	1.01	1.58	0.018	0.018	0.10	-	-
35ХГНМ(KhGNM)	0.36	0.19	1.20	1.07	1.54	0.030	0.022	-	0.28	-
35ХГНВ(KhGNV)	0.37	0.24	1.25	1.06	1.57	0.029	0.020	-	-	0.52
25ХГСН(KhGSN)	0.28	1.06	1.40	1.33	1.10	0.022	0.028	-	-	-
25ХГСБ(KhGSB)	0.25	1.07	1.25	1.33	0.52	0.034	0.019	0.09	-	-
25ХГСВ(KhGSV)	0.24	1.08	1.40	1.30	0.44	0.026	0.020	-	-	0.50

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Hardenability of Niobium-Alloyed Steel

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Table 2

The Mechanical Properties of Steels After Quenching in Oil from 860 - 880°C and Tempering at 650°C With Cooling on Air

Steel	σ_b kg/mm²	σ_s kg/mm²	δ %	ψ %	a_k kgm/cm²
35ХН (KhN)	65	50	15	60	6.0
35ХНВ (KhNB)	80	71	21	69	13.0
35ХНМ (KhNM)	87	76	13	60	10.2
35ХНВ (KhNV)	87	75	12	63	12.9
35ХГН (KhGN)	84	73	13	61	7.3
35ХГНБ (KhGNB)	89	79	14	62	9.5
35ХГНМ (KhGNM)	91	81	12	60	10.6
35ХГНВ (KhGNV)	88	81	13	61	9.5
25ХГСН (KhGSN)	80	65	20	57	10.2
25ХГСВ (KhGSB)	103	92	19	60	10.1
25ХГСВ (KhGSV)	90	79	19	62	11.3

ASSOCIATION: Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (Ukrainian Academy of Agricultural Sciences)

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SUBMITTED: March 21, 1959

VINOKUR, B.B.; BRAUN, M.P.

Hardenability of complex-alloy chromium-manganese steel. Struk.i svois.lit.splav. no.1:36-44 '62. (MIRA 15:5)
(Chromium-manganese steel--Hardening)

BRAUN, M.P., doktor tekhn.nauk, prof.; VINOKUR, B.B., inzh.; KONDRASHEV, A.I., inzh.; KOSTYRKO, O.S., inzh.

Principles of the alloying of steel. Metalloved. i term. obr. met. no.5:26-29 My '62. (MIRA 15:5)

1. Kiyevskiy politekhnicheskiy institut.
(Steel alloys--Metallurgy)

MATYUSHENKO, N.I.; MANUYLOVA, V.P.; VINOKUR, B.B.; BRAUN, M.P.

Recrystallization of EI726 cast heat-resistant steel. Struk.i svois.lit.splav. no.1:125-128 '62. (MIRA 15:5)
(Steel castings) (Crystallization)

BRAUN, M.P., doktor tekhn.nauk; VINOKUR, B.B., inzh.; MATYUSHENKO, N.I., inzh.; MANUYLOVA, V.P., inzh.

Efficient conditions for shaping and heat treatment of heat-resistant austenite steel. Mashinostroenie no.4:32-36 Jl-Ag '62. (MIRA 15:9)

1. Institut liteynogo proizvodstva AN UkrSSR.
(Steel--Heat treatment)

S/148/62/000/012/007/008
E193/E383

AUTHORS: Braun, M.P., Vinokur, B.B., Kondrashov, A.I. and Geller, A.L.

TITLE: Search for nickel-free constructional steels

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 12, 1962, 126 - 130

TEXT: Cr-Ni steels, widely used in the heavy machine tool-building industry, although characterized by good hardenability, are prone to temper-brittleness. The standard method of preventing this effect is to alloy the steel with Mo. The object of the present investigation was to find out whether nickel-free steels with properties similar to those of Cr-Ni-Mo steels could be developed. The composition of Ni-free and Ni-bearing steels used in the experiments is given in Table 1. The effect of tempering temperature on the impact strength a_k of the steels in the ductile (i.e. rapidly cooled) and brittle (slowly cooled) condition was studied in the first series of experiments. In this respect, the (Mo + Ti) addition was found to be the most effective. Steel 30Kh2GMT (30Х2ГМТ), tempered at 400 - 500 °C, had $a_k \approx 4$ kgm/cm^2;

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a_k rapidly increased on increasing the tempering temperature, reaching a value of about 21 kgm/cm^2 after tempering at 675 °C; the difference between a_k of this steel in the brittle and ductile condition was negligible for the entire range of tempering temperatures studied. For comparison, a_k of steel 40ХН (40KhN), tempered at 675 °C, was 13 kgm/cm^2 for the ductile and 6.5kgm/cm^2 in the brittle condition. a_k of the steels at sub-zero temperatures was studied in the next series of experiments. The measurements were carried out on specimens hardened and tempered to produce UTS of 100 kg/mm^2; ductile and brittle conditions were attained, respectively, by water-quenching the specimen after tempering and by cooling at 30 °C/h. Here again, the steel 30Kh2GMT gave the best results, its a_k, in the ductile condition at +80, +40, 0, -80 and -160 °C, being, respectively, 19, 17, 14, 10, 8 and 5 kgm/cm^2. The greatest difference between the value of a_k for the ductile and brittle conditions did not exceed 5 kgm/cm^2. Steel 40KhN in the ductile condition had

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a_k = 14 kgm/cm^2 at 80 °C and 2 kgm/cm^2 at -160 °C, the corresponding values for the brittle condition being 7 and 0.5 kgm/cm^2. The relative proneness of the steels studied to brittle fracture is demonstrated in Table 4, showing the values of the "cold-brittleness threshold" defined as the temperature at which a_k of the steel constituted 50% of its value at room temperature. Conclusions: 1) Ni-free (Cr-Mn)-bearing steels with additional alloying elements show little tendency to brittle fracture and in this respect are similar to the Cr-Ni-Mo steel 35ХНМ (35KhNM). The ductility of these two types of steel at sub-zero temperatures is also comparable. 2) The results of studies of the mechanical properties (M.P. Braun et al - Metallovedeniye i termicheskaya obrabotka metallov, 1960, no. 12; Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1961, no. 8) and data on temper-brittleness, notch-sensitivity and ductile-to-brittle transition temperature (Braun et al, Izv. AN SSSR, OTN, 1961, no.4) of the steels 30ХГVТ (30KhGVT) and 30Х2МГТ (30Kh2MGT) indicate that these steels can be recommended as construction materials for large parts. There are 2 figures and 4 tables.

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ASSOCIATION: Ukrainskaya akademiya sel'skhokhozyaystvennykh nauk (Ukrainian Academy of Agricultural Sciences)

SUBMITTED: April 10, 1962

Table 1:

Type of steel	C	Si	Mn	Cr	Ni	W	Mo	Ti
30KhGVT	0.33	0.42	1.17	1.15	-	0.75	-	0.09
30KhGVM	0.31	0.25	0.05	1.10	-	0.75	0.75	-
30Kh2GMT	0.28	0.32	1.10	1.84	-	-	0.49	0.08
35KhNM	0.37	0.24	0.69	1.65	1.73	-	0.29	-
40KhN	0.39	0.33	0.59	1.25	1.56	-	-	-

Contents of S and P = 0.022 - 0.29%

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Table 4:

Type of steel	Ductile condition		Brittle condition	
	Cold-brittleness threshold	Temperature interval	Cold-brittleness threshold	Temp. interval
30KhGVT	-75	35	-60	35
30KhGVM	-100	55	-50	50
30Kh2GMT	-90	35	-70	35
35KhNM	-95	35	-85	35
40KhN	-45	90	-20	100

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VINOKUR, B.B.; GELLER, A.L.; BRAUN, M.P.; KONDRASHEV, A.I.

Tendency of high-strength steels toward temper brittleness. Struk.i svois.lit.splav. no.1:116-124 '62. (MIRA 15:5)
(Steel--Brittleness) (Metals, Effect of temperature on)

GELLER, A.L.; BRAUN, M.P.; VINOKUR, B.B.

Effect of the temperature of heating on the properties of complex-alloy steels. Struk.i svois.lit.splav. no.1:76-81 '62. (MIRA 15:5)

(Steel alloys—Hardening) (Metals, Effect of temperature on)

KONDRASHEV, A.I.; BRAUN, M.P.; GELLER, A.L.; VINOKUR, B.B.

Effect of complex alloying on the secondary order temper brittleness of chromium-manganese steel. Struk.i svois.lit.splav. no.1:102-109 '62. (MIRA 15:5)

(Chromium-manganese steel--Brittleness)

VINOKUR, B.B.; BRAUN, M.P.

Austenite transformations in chromium-manganese and chromium-nickel base steels. Struk.i svois.lit.splav. no.1:18-26 '62. (MIRA 15:5)

(Chromium steel--Metallography) (Phase rule and equilibrium)

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(Steel--Testing)
(Metals at high temperature)

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(Chromium-nickel steel--Testing) (Niobium)

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Effect of niobium on the temper brittleness of chromium-nickel steel. Izv.vys.ucheb.zav.; chern.met. no.8:113-118 Ag '58. (MIRA 11:11)

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(Chromium-nickel steel) (Niobium) (Steel--Brittleness)

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TITLE: On brittle fracture of alloy steel

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TEXT: Although the Cr-Ni and Cr-Ni-Mo steels have been long established as materials suitable for applications in which resistance to brittle fracture is of primary importance, the search for similar steels of other compositions has been continued owing to economic considerations. Complex, Cr- and Mn-bearing steels have been found promising in this respect but lack of operational experience has prevented their use in the fabrication of components likely to be subjected to complex stresses in service; hence the present investigation whose object was to compare the tendency to fail by brittle fracture of three Cr-Mn and two Cr-Ni steels. The composition of these materials (containing 0.015 - 0.028% S and 0.022 - 0.030% P)

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